FIG. 1

GUI widget **105**

100

data **110**

validation object **115**

data model **120**

FIG. 2

GUI widget **105**

GUI widget **205**

100

data **110**

validation object **115**

data model **120**
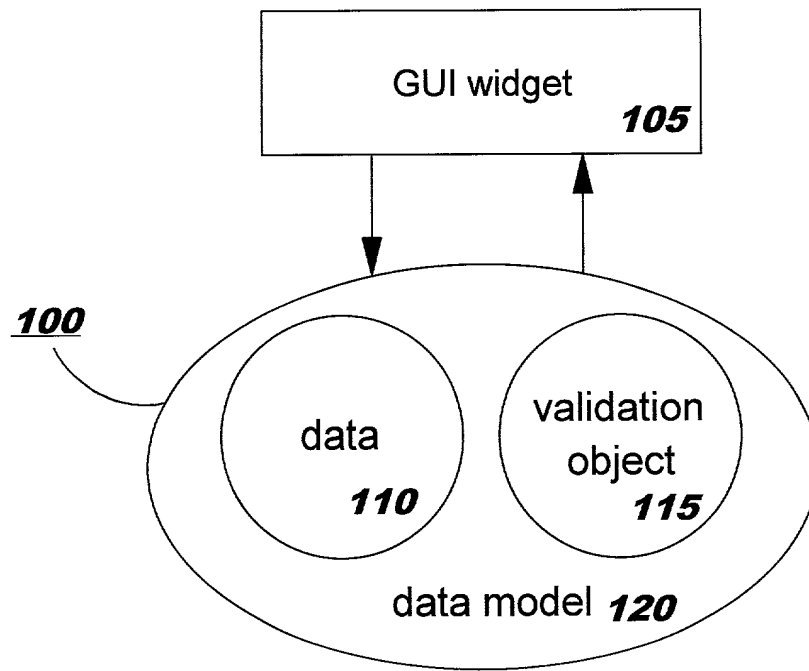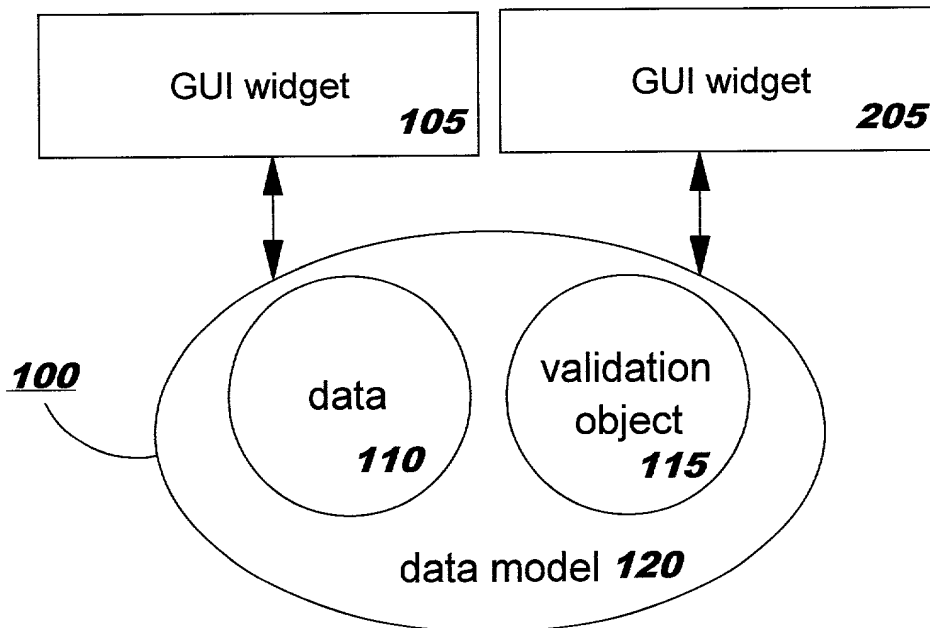
FIG. 3

300

```
305 <stringVariable
  310 name="social_security_number"
  315 minimumLength="9"
  320 maximumLength="9">
  325 <labelText>SSN</labelText>
  330 <helpText>The social security number of the applicant.</helpText>
  335 <mnemonic>D</mnemonic>
340        <inputValidation>
             <ignore>
  345         <characters>-</characters>
             </ignore>
             <valid>
  350         <characters>0123456789-</characters>
             </valid>
           </inputValidation>
         </stringVariable>
```
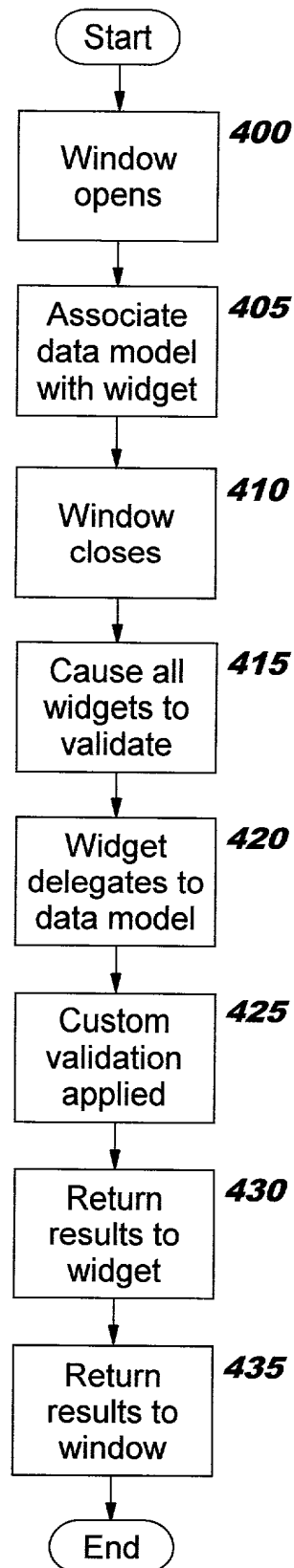
FIG. 4

Start

| Window opens | *400* |

| Associate data model with widget | *405* |

| Window closes | *410* |

| Cause all widgets to validate | *415* |

| Widget delegates to data model | *420* |

| Custom validation applied | *425* |

| Return results to widget | *430* |

| Return results to window | *435* |

End